|  |  |  |
| --- | --- | --- |
| **Website: http://nrfmtti.gov.in**  **E-mail: fmti-nr@nic.in**  **Tele./FAX: 01662-276984** | C:\Users\HP\Desktop\emblem2.jpg | C:\Users\Hp\Desktop\download.png |

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| --- |
| **भारत सरकार**/**Government of India** |
| **कृषिएवं किसान कल्याण मंत्रालय**/Ministry of Agriculture and Farmers Welfare |
| **कृषि एवं किसान कल्याण विभाग**/Department of Agriculture and Farmers Welfare |
| **उत्तरी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान** |
| **Northern Region Farm Machinery Training and Testing Institute** |
| **ट्रैक्टर नगर,सिरसा रोड, हिसार (हरियाणा)-1250 001** |
| **Tractor Nagar, Sirsa Road, Hisar (Haryana)- 125001** |
| **[ISO 9001:2015 COMPLIANT INSTITUTION]** ­­­­­­­­­­­­­­­­­­­­ |

|  |
| --- |
| **BRIEF TECHNICAL SPECIFICATIONS OF COMBINE HARVESTER** |
| (To be submitted by the applicant/ Manufacturer to testing Agency in quadruplicate.) |

|  |  |  |  |
| --- | --- | --- | --- |
| **1.** | Name and address of the manufacturer | **:** |  |
|  | Telephone Number(s) | **:** |  |
|  | Fax Number(s) | **:** |  |
|  | E mail address | **:** |  |
|  | website | **:** |  |
| **2.** | Make of Combine Harvester | **:** |  |
| **3.** | Model | **:** |  |
| **4.** | Type | **:** |  |
| **5.** | Brand Name, if any | **:** |  |
| **6.** | Trade Name, if any | **:** |  |
| **7.** | Country of origin | **:** |  |
| **8.** | Chassis Number of machine proposed to be submitted/ submitted for inspection/ tests | **:** |  |
| **9.** | Serial Number of machine proposed to be submitted/ submitted for inspection/ tests. | **:** |  |
| **10.** | Month and year of Manufacture | **:** |  |
| **10.1** | Code for the month and year of manufacture | **:** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **11** | **TYPE OF PRIME MOVER:** |  |  |
|  | Tractor | **:** |  |
|  | Tractor PTO driven | **:** |  |
|  |  |  |  |
| **12** | Type of Combine | **:** |  |
|  |  |  |  |
| **13** | **Wheel Equipments:** |  |  |
| **13.1** | **Front Wheels (Drive Wheels):** |  |  |
|  | No. of Wheels | **:** |  |
|  | Track Width (mm) | **:** |  |
|  | Tyre size and ply rating | **:** |  |
|  | Maximum loading capacity, at pressure 240 kpa, (Kgf) | **:** |  |
|  | RIM Size | **:** |  |
|  | Recommended tyre pressure for road work (kgf/cm²) | **:** |  |
|  |  |  |  |
| **13.2** | **Rear Wheels (Steered Wheels):** |  |  |
|  | No. of Wheels | **:** |  |
|  | Track width (mm) | **:** |  |
|  | Tyre Size and ply rating | **:** |  |
|  | Maximum loading capacity, at pressure 450 kpa, (Kgf) | **:** |  |
|  | RIM Size | **:** |  |
|  | Recommended tyre pressure for road work (kgf/cm²) | **:** |  |
|  |  |  |  |
| **14** | **Wheel base (mm)** | **:** |  |
|  |  |  |  |
| **15** | **Transmission System:** | **:** |  |
| **15.1** | **Clutch:** | **:** |  |
|  | Type | **:** |  |
|  | No. of plate(s) | **:** |  |
|  | * Main | **:** |  |
|  | * PTO | **:** |  |
|  |  |  |  |
| **15.2** | **Gear Box:** |  |  |
|  | Make | **:** |  |
|  | Model and identification no. if any | **:** |  |
|  | Type | **:** |  |
|  | No. of arrangements | **:** |  |
|  |  |  |  |
| **15.2.1** | **Range of Speeds, (Kmph)** | **:** |  |
|  | * Forward | **:** |  |
|  |  |  |  |
| **16** | **Brakes** | **:** |  |
| **16.1** | **Service Brake:** |  |  |
|  | Type, Mechanical/ Hydraulic/ Any other | **:** |  |
|  | Location | **:** |  |
|  | Method of operation | **:** |  |
| **16.2** | **Parking Brake:** |  |  |
|  | Type | **:** |  |
|  | Location | **:** |  |
|  | Method of operation | **:** |  |
|  |  |  |  |
| **17** | **Details of Lights:** |  |  |
| **17.1** | **Head Lights:** |  |  |
|  | Make | **:** |  |
|  | Number(s) | **:** |  |
|  | Wattage of bulbs, (W) | **:** |  |
|  | Location | **:** |  |
|  | Colour | **:** |  |
| **17.2** | **Parking Light (s):** |  |  |
| **17.2.1** | **Front** | **:** |  |
|  | Make | **:** |  |
|  | Number (s) | **:** |  |
|  | Wattage of bulbs, (W) | **:** |  |
|  | Location | **:** |  |
|  | Colour | **:** |  |
|  |  |  |  |
| **17.2.2** | **Rear:** |  |  |
|  | Make | **:** |  |
|  | Number (s) | **:** |  |
|  | Wattage of bulbs, (W) | **:** |  |
|  | Location | **:** |  |
|  | Colour | **:** |  |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **17.3** | **Turn Indicator Light (s):** |  |  |
| **17.3.1** | **Front:** |  |  |
|  | Make | **:** |  |
|  | Number (s) | **:** |  |
|  | Wattage of bulbs, (W) | **:** |  |
|  | Location | **:** |  |
|  | Colour | **:** |  |
|  |  |  |  |
| **17.3.2** | **Rear:** |  |  |
|  | Make | **:** |  |
|  | Number (s) | **:** |  |
|  | Wattage of bulbs, (W) | **:** |  |
|  | Location | **:** |  |
|  | Colour | **:** |  |
|  |  |  |  |
| **17.4** | **Brake/ Stop Light:** |  |  |
|  | Make | **:** |  |
|  | Number (s) | **:** |  |
|  | Wattage of bulbs, (W) | **:** |  |
|  | Location | **:** |  |
|  | Colour | : |  |
|  |  |  |  |
| **17.5** | **Rear Registration Plate light:** |  |  |
|  | Make | **:** |  |
|  | Number(s) | **:** |  |
|  | Wattage of bulbs, (W) | **:** |  |
|  | Location | **:** |  |
|  | Colour | **:** |  |
| **17.6** | **Reflector(s):** |  |  |
| **17.6.1** | **Front:** |  |  |
|  | Make | **:** |  |
|  | Shape, Size and Area | **:** |  |
|  | Number(s) | **:** |  |
|  | Location | **:** |  |
|  | Colour | **:** |  |
|  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **17.6.2** | **Rear:** |  |  | |
|  | Make | **:** |  | |
|  | Shape, Size and Area | **:** |  | |
|  | Number(s) | **:** |  | |
|  | Location | **:** |  | |
|  | Colour | **:** |  | |
|  |  |  |  | |
| **17.6.3** | **Sides:** |  |  | |
|  | Make | **:** |  | |
|  | Shape, Size and Area | **:** |  | |
|  | Number(s) | **:** |  | |
|  | Location | **:** |  | |
|  | Colour | **:** |  | |
|  |  |  |  | |
| **18** | **Horn:** |  |  | |
|  | Make | **:** |  | |
|  | Type | **:** |  | |
|  | No. & location | **:** |  | |
| **19** | **Rear View Mirror:** |  |  | |
|  | Make |  |  | |
|  | Type | **:** |  | |
|  | Marking | **:** |  | |
|  | Location | **:** |  | |
| **20** | **Maximum grade ability, Degrees** | **:** |  | |
|  |  |  |  | |
| **21** | **Grain Tank:** |  |  | |
|  | Location | **:** |  | |
|  |  |  |  | |
| **22** | **Steering:** |  |  | |
|  | Make | **:** |  | |
|  | Type | **:** |  | |
|  | Steering Control Wheel Dia (mm) | **:** |  | |
|  | Location of steering control wheel | **:** |  | |
|  | Minimum turning diameter, (m) |  | **LHS** | **RHS** |
|  | With brake | **:** |  |  |
|  | Without brake | **:** |  |  |
|  |  |  |  | |
|  | Minimum clearance diameter, (m) |  | **LHS** | **RHS** |
|  | With brake | **:** |  |  |
|  | Without brake | **:** |  |  |
|  |  |  |  | |
| **23** | **OVERALL DIMENSIONS (mm):** |  |  | |
|  | Length with trailer/ without trailer | **:** |  | |
|  | Width (Transport) | **:** |  | |
|  | Height | **:** |  | |
|  | Minimum ground clearance | **:** |  | |
|  | Front Overhang | **:** |  | |
|  | Rear Overhang | **:** |  | |
|  |  |  |  | |
| **24** | **Mass of combine on transport (Kg):** |  |  | |
|  | Mass of combine at front | **:** |  | |
|  | Mass of combine at rear | **:** |  | |
|  | Total Mass of combine harvester | **:** |  | |
|  | Mass of cutter bar and trailer | **:** |  | |

**II BRIEF TECHNICAL SPECIFICATION OF PRIME MOVER FOR TRACTOR**

**POWERED COMBINE HARVESTER**

**(To be submitted by applicant / Manufacturer to testing Agency in quadruplicate)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **1** | **GENERAL** |  | |  |
|  | Name and address of the manufacturer | **:** | |  |
|  | Address of Manufacturer | **:** | |  |
|  | Fax Number(s) | **:** | |  |
|  | Telephone Number (s) | **:** | |  |
|  | E mail address | **:** | |  |
|  | website | **:** | |  |
|  |  |  | |  |
| **2** | **BRIEF TECHNICAL SPECIFICATION OF TRACTOR:** | | | |
|  | Make | **:** | |  |
|  | Model | **:** | |  |
|  | Type | **:** | |  |
|  | Chassis No. | **:** | |  |
|  | Engine serial no. | **:** | |  |
|  | No Load Engine RPM (Fly-up) | **:** | |  |
|  | Engine to PTO Speed Ratio | **:** | |  |
|  | Rated Engine Speed | **:** | |  |
|  | Max. PTO power, kW @ rpm (declared value) | **:** | |  |
|  | Standard Mode | **:** | |  |
|  | Economy Mode | **:** | |  |
|  | Rated PTO power, kW @ rpm (declared value) | **:** | |  |
|  | Standard Mode | **:** | |  |
|  | Economy Mode | **:** | |  |
|  |  |  | |  |
| **3** | **Prime Mover for the Tractor:** |  | |  |
|  | Make | **:** | |  |
|  | Model | **:** | |  |
|  | Type | **:** | |  |
|  | Serial Number | **:** | |  |
|  | Bore / stroke, mm (apa) | **:** | |  |
|  | Capacity, (cc) | **:** | |  |
|  | No. of cylinders | **:** | |  |
|  | Rated engine speed(rpm) | **:** | |  |
|  | Max engine output, kW @ rpm (declared value) | **:** | |  |
|  | Standard Mode | **:** | |  |
|  | Economy Mode | **:** | |  |
|  |  |  | |  |
| **3.1** | **Air Cleaner:** |  |  | |
|  | Nos. | **:** |  | |
|  | Type | **:** |  | |
|  | Location | **:** |  | |
|  |  |  |  | |
| **3.2** | **Cooling System:** |  |  | |
|  | Type | **:** |  | |
|  |  |  |  | |
| **3.3** | **Fuel System** |  |  | |
|  | Type | **:** |  | |
|  |  |  |  | |
| **3.3.1** | **Fuel filter(s):** |  |  | |
|  | Make | **:** |  | |
|  | Type | **:** |  | |
|  | Model | **:** |  | |
|  | Number(s) | **:** |  | |
|  | Additional filter (s) if any | **:** |  | |
|  |  |  |  | |
| **3.3.2** | **Fuel Injection Pump:** |  |  | |
|  | Make | **:** |  | |
|  | Model/group combination no. | **:** |  | |
|  | Type | **:** |  | |
|  |  |  |  | |
| **3.3.3** | **Governor:** |  |  | |
|  | Make | **:** |  | |
|  | Model/group combination no. | **:** |  | |
|  |  |  |  | |
| **3.3.4** | **Fuel tank:** |  |  | |
|  | Material | **:** |  | |
|  | Location | **:** |  | |
|  | Capacity (l) | **:** |  | |
|  |  |  |  | |
| **3.4** | **Lubrication System:** |  |  | |
|  | Type | **:** |  | |
|  | No. & type of oil filter (s) | **:** |  | |
|  |  |  |  | |
| **3.5** | **Clutch:** |  |  | |
|  | Type | **:** |  | |
|  | No. of plate (s) | **:** |  | |
|  | Main | **:** |  | |
|  | PTO | : |  | |
|  |  |  |  | |

|  |  |  |  |
| --- | --- | --- | --- |
| **3.6** | **Gear box** |  |  |
|  | Make | **:** |  |
|  | Model & identification no., if any | **:** |  |
|  | Type | **:** |  |
|  | No. of arrangements | **:** |  |
|  |  |  |  |
| **3.6.1** | **No. of Speed** | **:** |  |
|  |  |  |  |
| **3.6.2** | **Range of speeds, (kmph):** |  |  |
|  | Forward | **:** |  |
|  |  |  |  |
| **3.7** | **Steering** |  |  |
|  | Make | **:** |  |
|  | Type | **:** |  |
|  | Steering control wheel dia., (mm) | **:** |  |
|  | Location of steering control wheel | **:** |  |
|  | Steered axle | **:** |  |
|  |  |  |  |
| **3.8** | **Wheel equipment & tyres** |  |  |
| **3.8.1** | **Front** | **:** |  |
|  | Tyre size & ply rating | **:** |  |
|  | Recommended tyre pressure for road work, kPa (kgf/cm2) | **:** |  |
|  |  |  |  |
| **3.8.2** | **Rear** |  |  |
|  | Tyre size & ply rating | **:** |  |
|  | Recommended tyre pressure for road work, kPa (kgf/cm2) | **:** |  |
|  |  |  |  |
| **3.9** | **Brakes** |  |  |
| **3.9.1** | **Service brake** |  |  |
|  | Type, Mechanical/Hydraulic/Any other (describe briefly) | **:** |  |
|  | Location | **:** |  |
|  | Method of operation | **:** |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  | | |
| **3.9.2** | **Parking brake** |  |  | | |
|  | Type and brief description | **:** |  | | |
|  | Location | **:** |  | | |
|  | Method of operation | **:** |  | | |
|  |  |  |  | | |
| **3.10** | **Electrical system of tractor** |  |  | | |
|  | System voltage, (V) | **:** |  | | |
|  |  |  |  | | |
| **3.10.1** | **Battery** |  |  | | |
|  | Type | **:** |  | | |
|  | Make | **:** |  | | |
|  | Number(s) | **:** |  | | |
|  | Capacity and rating | **:** |  | | |
|  |  |  |  | | |
| **3.10.2** | **Generator (Alternator/Dynamo)** |  |  | | |
|  | Type | **:** |  | | |
|  | Make | **:** |  | | |
|  | Max. output | **:** |  | | |
|  |  |  |  | | |
| **3.10.3** | **Starter** |  |  | | |
|  | Type | **:** |  | | |
|  | Max power input, (kW) | **:** |  | | |
| **3.11** | **Mass, (Kg)** | **:** | **Front** | **Rear** | **Total** |
| **3.11.1** | Unballasted | **:** |  |  |  |
|  | Max permissible Ballasted |  |  |  |  |
|  |  |  |  | | |
| **3.12** | **Max. gradeability in degrees** | **:** |  | | |
|  |  |  |  | | |
| **3.13** | **Seat (s)** |  |  | | |
| **3.13.1** | **Operator’s Seat:** | **:** |  | | |
| Make | **:** |  | | |
| Type | **:** |  | | |
|  | Location | **:** |  | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **3.14** | **Mirror:** |  |  |
|  | Type | **:** |  |
|  | Location | **:** |  |
|  |  |  |  |
| **3.15** | **Wheel base(mm)** | **:** |  |
|  |  |  |  |
| **3.16** | **Overall Dimensions in Travel mode (mm):** |  |  |
| Length | **:** |  |
| Height (without ROPS) | **:** |  |
| Width (fender) | **:** |  |
|  |  |  |  |
| **3.17** | **Min. Ground clearance(mm)** | : |  |

|  |  |
| --- | --- |
|  | I, , of **M/s** hereby certify that information given in page 1 to 11 is as per design/drawing of the prototype/commercial model of Tractor powered Combine Harvester submitted for inspection/test and is correct to the best of my knowledge and belief. I also understand that in case any of the information furnished above is found not correct or incomplete, among other action, the certificate is liable to cancelled. |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Applicant / Manufacturer | **:** |  |
|  | Signature of Authorized Signatory | **:** |  |
|  | Name | **:** |  |
|  | Designation | **:** |  |
|  | Place | **:** |  |
|  | Date | **:** |  |